REMARKS

Claims 1, 4-8, 10-38 and 40-54 remain pending herein. Claims 2, 3, 9 and 39 are hereby canceled without prejudice or waiver of the right to pursue the subject matter of said claims in another application. No new claims have been added. Claims 1, 8, 10, 12, 17, 18, 29, 31-37, 40, 43-44, and 52-53 have been amended. All other claims remain the same. Reconsideration of the claims as pending is respectfully requested.

The specification (page 42) has been amended to include the subject matter of originally filed claims 4 and 25.

Claims 1-5, 10, 13-14, and 18-38 stand rejected under 37 C.F.R. §112, 1st para. for scope of enablement because the specification does not reasonably provide enablement for the employment of any COX-II inhibitors and any muscle relaxants recited in the claims. Insofar as it may apply to the present claims, the rejection is respectfully traversed.

The specification (pages 7-10) includes recitation of a large list of COX-II inhibitors that are suitable for use according to the invention. As required, the list specifically names compounds by their names. Moreover, it includes patent citations disclosing the names and structures of suitable COX-II inhibitors and methods of preparing them. The specification (page 10) also includes recitation of a list of suitable muscle relaxants that can be used according to the invention. Those compounds are well known and commercially available. Accordingly, one of ordinary skill in the art can readily visualize or recognize the identity of the members of the genus.

The specification (page 11) discloses some of the salt forms in which the compounds can be administered as well as some general methods for their preparation. The drug combination can be administered in any of a number of different dosage forms (pages 12, 30), which methods of preparation are described (pages 12-31) and exemplified (Examples 1-13).

Applicants submit that, if taken out of context, the terms "COX-II inhibitor" and "muscle relaxant" might be deemed as lacking sufficient definition; however, Applicant is his own lexicographer, and use of applicant's term(s) in a claim is permissible provided it is sufficiently well defined in the specification. As noted above, the terms are exemplified with specific compounds and thus defined to the extent required by law.

Examiner states that the claimed invention is highly unpredictable, since one skilled in the art cannot fully describe [the] genus, visualize or recognize the identity of the members, etc. ... Applicants respectfully submit that the listing of compounds on pages 7-10 describes the genus and thus allows an artisan of ordinary skill in the art to visualize or recognize the identity of the members.

Suggested dosages, weight ratios and amounts for the drugs are disclosed (amended page 42, original page 29, original examples 1-13, and original claims 4, 14, 25). Beginning with the suggested dosages, amounts and weight ratios, Applicants submit that one of ordinary skill in the art will be able to identify a suitable operating range for combinations of different COX-II inhibitors and muscle relaxants.

Absent any evidence to the contrary, Applicants respectfully submit that the specification enables the scope of compounds as claimed.

Applicants respectfully submit that the rejection of claims 1-5, 10, 13-14, and 18-38 under 37 C.F.R. §112, 1st para. has been overcome and request that it be withdrawn.

Claims 7-8, 12, 14, 16-18, 22-23, 28-29, 31-37, 43-45 and 52-54 stand rejected under 35 U.S.C. §112, 2nd para. as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Insofar as it may apply to the present claims, this rejection is traversed.

While Examiner has stated that terms, such as "delayed release", "immediate release", "slow release", and "rapid release", lack definition, those same terms are widely used and well understood in the pharmaceutical sciences, in particular U.S. patents covering pharmaceutical dosage forms. There are literally hundreds, if not thousands, of U.S. patents and publications of the Food and Drug Administration that use these exact same terms. As evidence thereof, Applicants submit Exhibits A-F. Exhibits A-D contain lists of U.S. Patents that include those very same terms in the claims: "delayed release" (Exhibit A), "immediate release" (Exhibit B), "slow release" (Exhibit C), "rapid release" (Exhibit D). Exhibit E contains the first page information CDER Data the Standards **Manual** dosage forms (http://www.fda.gov/cder/dsm/DRG/drg00201.htm) published by the FDA. This on-line publication specifically defines the terms "slow release", "extended release", "delayed release". Moreover, the exhibits provided along with the Response mailed September 17, 2002 also define these terms. Without further explanation by Examiner, Applicants do not understand how textbook definitions can be unclear. Exhibit F contains a citation of the Guidance for Industry: dissolution testing \mathfrak{a} f immediate release solid oral dosage forms

(http://www.fda.gov/cder/guidance/1713bp1.pdf) published by the FDA. This on-line publication specifically defines and characterizes an "immediate release" dosage form. Accordingly, Applicants submit that the terms "rapid release", "immediate release", "slow release", and "delayed release" are well-defined terms of art in the pharmaceutical sciences.

It is well known in the art to combine different types of drug release profiles to achieve particular clinical effects. For example a "delayed but rapid release" dosage form would provide rapid release of drug AFTER expiration of a delay (lag) period.

While Applicants vehemently disagree with Examiner's conclusion, Applicants have amended the claims to define the invention with other language that does not rely upon the terms "rapid", "slow", "immediate" or "delayed". Applicants submit that such definition is merely intended to clarify the language of the claims as originally filed and not narrow their scope.

Accordingly, Applicants submit that the rejection of claims 7-8, 12, 14, 16-18, 22-23, 28-29, 31-37, 43-45 and 52-54 under 35 U.S.C. §112, 2nd para. has been overcome and request that it be withdrawn.

Claims 7-8, 16-17 and 40-48 stand rejected under 35 U.S.C. §112, 2nd para. for use of the terms SC-5766, SC-58215, and T-614, which Examiner has indicated as a trademark or trade name. Insofar as it may apply to the present claims, this rejection is traversed.

As previously noted, the terms SC-5766, SC-58215, and T-614 are not trademarks or trade names. Nonetheless, applicants have replaced the terms with their corresponding chemical names.

Accordingly, Applicants submit that the rejection of claims 7-8, 16-17 and 40-48 under 35 U.S.C. §112, 2nd para. has been overcome and request that it be withdrawn.

Claims 1-8, 10-38 and 40-54 stand rejected under 37 C.F.R. §103(a) as being unpatentable over Burch et al. in view of Okada et al. (US 5,476,663). Insofar as it may apply to the present claims, this rejection is respectfully traversed.

Claim 1 has been amended to include the subject matter of original claims 2 and 3 and previously considered subject matter concerning the additive or synergistic therapeutic effect that the combination of a COX-II inhibitor and muscle relaxant provides when administered to a subject (See prior Office Actions and corresponding responses; see page 5, lines 24-25 and page 29, line 26 to page 30, line 9 of the specification). Claim 10 has been amended to include the subject matter of original claims 2 and 3

Applicants agree with Examiner that the prior art (Burch et al.) does not expressly disclose a COX-II inhibitor, e.g. rofecoxib, in combination with a muscle relaxant, e.g. pridinol, in a pharmaceutical dosage form. Applicants also agree with Examiner that the discovery or expectation of synergistic analgesic effect is unexpected.

Applicants disagree, however, that Burch et al. suggest the combination of a COX-II inhibitor and a muscle relaxant. Burch et al. is specifically directed to the combination of an analgesic and a COX-II inhibitor. It is well known in the industry that an analgesic and a muscle relaxant have different therapeutic indications and mechanisms of action. Accordingly, the disclosure of Burch et al. fails to suggest the invention as claimed.

Combination of the disclosures of Burch et al. and Okada et al. also fails to suggest the invention as claimed. Applicants disagree that Okada et al. teaches that a muscle relaxant such as pridinol is useful in combination with analgesic and/or anti-inflammatory drugs (Col. 3, lines 13-28). Applicants respectfully submit that pridinol is merely included among a laundry list of compounds that can be included in the dosage form of Okada et al. In fact, a thorough search of Okada et al. reveals that they failed to even suggest the simultaneous administration of two or more drugs with their dosage form. In each case, the drugs are administered individually. The only combinations they suggest or disclose are combinations of excipients, the inactive agents. Accordingly, while the combination of Burch et al. and Okada et al. might suggest a COX-II inhibitor from Burch et al. with an analgesic drug chosen from the list Okada et al., the combination would not suggest a COX-II inhibitor and a muscle relaxant. Burch et al. would not be motivated to include a muscle relaxant from Okada et al., since such a prophetic combination would not include the analgesic agent that Burch et al. specifically requires. Moreover, the courts have clearly established that mere recitation of Applicants' claimed elements within the text of a prior art reference is insufficient to establish obviousness. The prior art must also suggest the combination of those elements and the expectation of success in using the suggested combination as proposed to be claimed by an applicant.

Examiner has indicated that the Supplemental Declaration under Rule 37 C.F.R. §1.132 of Dr. Feleder, mailed September 17, 2002, was insufficient to overcome the finding of *prima facie* obviousness, since it did not include "factual evidence" establishing the observed synergistic effect of the claimed drug combination. Applicants submit herewith a second Supplemental Declaration that includes the actual data obtained from the *in vivo* study described

therein. The data for the treated animals were normalized against the data for the control animals in order to establish a relevant scale for comparison. The data demonstrate that the combination of rofecoxib and pridinol provides a synergistic effect, but the combination of diclofenac (analgesic) and pridinol does not. Applicants submit that the claimed combination provides an unexpectedly enhanced analgesic therapeutic benefit. Accordingly, the claimed combination is not *prima facie* obvious and is therefore patentable over the art of record.

In view of the above, applicants submit that the rejection of claims 1-8, 10-38 and 40-54 under 37 C.F.R.§103(a) has been overcome and request that it be withdrawn.

A marked-up copy of the claims and of the specification as amended is attached hereto. Entry of the amendments indicated thereon into the record is requested. In view of all the foregoing, Applicants respectfully submit that the pending claims are patentable over the art of record and in form for allowance. An early notice of allowance thereof is requested.

Respectfully submitted,

Date:

Innovar, L.L.C. P.O. Box 250647

Plano, TX 75025-0647

Ph.: 972-747-7373

Fax: 972-747-7375

Rick Matos, Ph.D.

Registration No. 40,082

Agent for Applicant

Email: innovarllc@sbcglobal.net



CLAIMS

We claim:

- 1) (Currently amended) A pharmaceutical composition comprising:
 - a) a COX-II inhibitor, wherein the COX-II inhibitor binds COX-II receptors selectively over COX-I receptors or binds COX-II receptors specifically;
 - b) a muscle relaxant; and
 - c) at least one pharmaceutical excipient; wherein the COX-II inhibitor and muscle relaxant provide an additive or synergistic therapeutic effect when administered to a subject.
- 2) (Cancelled)
- 3) (Cancelled)
- 4) (Original) The pharmaceutical composition of claim 1, wherein the weight ratio of COX-II inhibitor to muscle relaxant varies from (12.5:2.2) to (50:8).
- 5) (Original) The pharmaceutical composition of claim 1, wherein the COX-II inhibitor is selected from the group consisting of central muscle relaxants and neuromuscular blocking agents.
- 6) (Original) The pharmaceutical composition of claim 1, wherein the at least one pharmaceutical excipient is independently selected from the group consisting of an acidifying agent, adsorbents, alkalizing agent, antioxidants, buffering agent, colorant, flavorant, sweetening agent, tablet antiadherent, tablet binder, tablet and capsule diluent, tablet direct compression excipient, tablet disintegrant, tablet glidant, tablet lubricant, tablet or capsule opaquant, plasticizer, surface active agent, solvent, oil, soap, detergent, and tablet polishing agent.
- 7) (Previously amended) The pharmaceutical composition of claim 1, wherein the muscle relaxant is selected from the group consisting of alcuronium, alosetron, aminophylline, baclofen, carisoprodol, chlorphenesin, chlorphenesin carbamate, chlorzoxazone, chlormezanone, cyclobenzaprine, dantrolene, decamethonium, diazepam, dyphylline, eperisione, ethaverine, gallamine triethiodide, hexafluorenium, mephenesin, metaxalone, methocarbamol, metocurine iodide, orphenadrine, pancuronium, papaverine, pipecuronium, pridinol, succinylcholine, theophylline, tizanidine, tolperisone, tubocurarine, vecuronium, idrocilamide, ligustilide, cnidilide, and senkyunolide.
- 8) (Thrice Amended) The pharmaceutical composition of claim 1, wherein the COX-II inhibitor is selected from the group consisting of rofecoxib, celecoxib, flosulide, [NS-398] N-(2-

cyclohexyloxy-4-nitrophenyl) methanesulfonamide, [DUP-697] 5-bromo-2-(4-fluorophenyl)-3-(4-methylsulfonyl) thiophene, meloxicam, 6-methoxy-2-naphthylacetic acid, nabumetone, etodolac, nimesulide, [SC-57666] 1-fluoro-4-(2-(4-(methylsulfonyl)-phenyl)-1-cyclopenten-1-yl)-benzene, [T-614] N-(3-formylamino-4-oxo-6-phenoxy-4H-chromen-7-yl) methanesulfonamide, and combinations thereof.

- 9) (Canceled)
- 10) (Currently amended) A pharmaceutical dosage form comprising:
 - a) a therapeutically effective amount of a COX-II inhibitor, wherein the COX-II inhibitor binds COX-II receptors selectively over COX-I receptors or binds COX-II receptors specifically;
 - b) a therapeutically effective amount of a muscle relaxant; and
 - c) at least one pharmaceutical excipient.
- 11) (Original) The pharmaceutical dosage form of claim 10, wherein the dosage form is selected from the group consisting of a gel, cream, ointment, pill, tablet, capsule, liquid, suspension, osmotic device, bead, granule, spheroid, particulate, paste, prill, reconstitutable solid, powder, and injectible liquid.
- 12) (Twice amended) The pharmaceutical dosage form of claim 10, wherein the [dosage form independently provides a controlled, delayed, sustained, immediate, timed, slow or rapid release of each of the] COX-II inhibitor is released at a faster rate than [and] the muscle relaxant, the COX-II inhibitor is released at a slower rate than the muscle relaxant, or the COX-II inhibitor is released at approximately the same rate as the muscle relaxant when the dosage form is [when] exposed to an aqueous environment.
- 13) (Previously amended) The pharmaceutical dosage form of claim 10, wherein the dosage form provides therapeutically effective plasma levels of the COX-II inhibitor for a period up to at least about 12 hours after administration to a subject.
- 14) (Previously amended) The pharmaceutical dosage form of claim 10, wherein after administration to a subject the dosage form provides therapeutically effective plasma levels of the muscle relaxant for a period of administration sufficient to enhance the therapeutic benefit provided by the COX-II inhibitor.
- 15) (Original) The pharmaceutical dosage form of claim 10, wherein the pharmaceutical dosage form is adapted for oral, buccal, ocular, otic, gastrointestinal, dermal, rectal, vaginal, cervical,

- intrauterine, epidermal, transdermal, implant, mucosal, parenteral, sublingual, nasal, or pulmonary delivery.
- 16) (Previously amended) The pharmaceutical dosage form of claim 10, wherein the muscle relaxant is selected from the group consisting of alcuronium, alosetron, aminophylline, baclofen, carisoprodol, chlorphenesin, chlorphenesin carbamate, chlorzoxazone, chlormezanone, cyclobenzaprine, dantrolene, decamethonium, diazepam, dyphylline, eperisione, ethaverine, gallamine triethiodide, hexafluorenium, mephenesin, metaxalone, methocarbamol, metocurine iodide, orphenadrine, pancuronium, papaverine, pipecuronium, pridinol, succinylcholine, theophylline, tizanidine, tolperisone, tubocurarine, vecuronium, idrocilamide, ligustilide, cnidilide, and senkyunolide.
- 17) (Thrice amended) The pharmaceutical dosage form of claim 10, wherein the COX-II inhibitor is selected from the group consisting of rofecoxib, celecoxib, flosulide, [NS-398] N-(2-cyclohexyloxy-4-nitrophenyl) methanesulfonamide, [DUP-697] 5-bromo-2-(4-fluorophenyl)-3-(4-methylsulfonyl) thiophene, meloxicam, 6-methoxy-2-naphthylacetic acid, nabumetone, etodolac, nimesulide, [SC-57666] 1-fluoro-4-(2-(4-(methylsulfonyl)-phenyl)-1-cyclopenten-1-yl)-benzene, [T-614] N-(3-formylamino-4-oxo-6-phenoxy-4H-chromen-7-yl) methanesulfonamide, and combinations thereof.
- 18) (Twice amended) The pharmaceutical dosage form of claim 10, wherein [each drug is released rapidly and] the dosage form provides therapeutically effective levels of each drug for a period of at least 12 hours after administration to a subject.
- 19) (Original) The pharmaceutical dosage form of claim 18, wherein the period is about 12 to 60 hours.
- 20) (Original) The pharmaceutical dosage form of claim 19, wherein the period is about 12 to 30 hours.
- 21) (Original) The pharmaceutical dosage form of claim 19, wherein the period is about 18 to 48 hours.
- 22) (Previously amended) The pharmaceutical dosage form of claim 10, wherein after administration to a subject the plasma level of the COX-II inhibitor or muscle relaxant is dependent upon the plasma level of the muscle relaxant or COX-II inhibitor, respectively.

- 23) (Previously amended) The pharmaceutical dosage form of claim 10, wherein after administration to a subject the plasma level of the COX-II inhibitor or muscle relaxant is independent of the plasma level of the muscle relaxant or COX-II inhibitor, respectively.
- 24) (Original) The pharmaceutical dosage form of claim 10, wherein the dosage form provides therapeutic plasma levels for the muscle relaxant in an amount sufficient to provide a therapeutic benefit to a subject to whom it is administered.
- 25) (Previously amended) The pharmaceutical dosage form of claim 10, wherein after administration to a subject the dosage form provides therapeutic plasma levels for the COX-II inhibitor in the range of about 90 ng to about 300 ng per ml of plasma in the subject.
- 26) (Previously amended) The pharmaceutical dosage form of claim 10, wherein the COX-II inhibitor and muscle relaxant are released sequentially after exposure to an aqueous environment.
- 27) (Previously amended) The pharmaceutical dosage form of claim 10, wherein the COX-II inhibitor and muscle relaxant are released concurrently after exposure to an aqueous environment.
- 28) (Previously amended) The pharmaceutical dosage form of claim 10, wherein the COX-II inhibitor and muscle relaxant are released in spaced apart periods of time after exposure to an aqueous environment.
- 29) (Twice amended) The pharmaceutical dosage form of claim 10, wherein each drug is independently released according to a [rapid, immediate,] controlled, sustained, [slow,] timed, targeted, pseudo-first order, first order, pseudo-zero order, or zero-order[, and/or delayed] release profile after exposure to an aqueous environment, optionally wherein the release of one or both of the drugs begins after expiration of a lag period, and optionally wherein the release of one drug begins after release of the other drug has begun.
- 30) (Previously amended) The pharmaceutical dosage form of claim 10, wherein the dosage form provides a controlled release of the COX-II inhibitor and a controlled release of the muscle relaxant after exposure to an aqueous environment.
- 31) (Twice amended) The pharmaceutical dosage form of claim 10, wherein the dosage form provides a controlled release of the COX-II inhibitor after exposure to an aqueous environment and a [rapid] release of the muscle relaxant within two hours after exposure to an aqueous environment.

- 32) (Twice amended) The pharmaceutical dosage form of claim 10, wherein the dosage form provides a controlled release of the muscle relaxant after exposure to an aqueous environment and a [rapid] release of the COX-II inhibitor within two hours after exposure to an aqueous environment.
- 33) (Twice amended) The pharmaceutical dosage form of claim 10, wherein the dosage form [provides a rapid release of] releases the COX-II inhibitor and [of] the muscle relaxant within two hours after exposure to an aqueous environment.
- 34) (Twice amended) The pharmaceutical dosage form of claim 10, wherein the dosage form [provides a rapid release of] releases the muscle relaxant within two hours after exposure to an environment of use and [a delayed but rapid] release of the COX-II inhibitor begins after [exposure to an aqueous environment] release of the muscle relaxant has begun.
- 35) (Twice amended) The pharmaceutical dosage form of claim [10] 34, wherein the dosage form provides a [rapid release of the muscle relaxant and a timed but] controlled release of the COX-II inhibitor after exposure to an aqueous environment.
- 36) (Twice amended) The pharmaceutical dosage form of claim 10, wherein the dosage form [provides a rapid release of] releases the COX-II inhibitor within two hours after exposure to an environment of use, [and a delayed but rapid] release of the muscle relaxant begins after [exposure to an aqueous environment] release of the COX-II inhibitor has begun.
- 37) (Twice amended) The pharmaceutical dosage form of claim [10] 36, wherein the dosage form provides a [rapid release of the COX-II inhibitor and a timed but] controlled release of the muscle relaxant after exposure to an aqueous environment.
- 38) (Original) The pharmaceutical dosage form of claim 10, wherein the weight ratio of COX-II inhibitor to muscle relaxant varies from 12.5:2.2 to 50:8.
- 39) (Canceled)
- 40) (Twice amended) A pharmaceutical composition comprising:
 - a) a COX-II inhibitor selected from the group consisting of rofecoxib, celecoxib, flosulide, [NS-398] N-(2-cyclohexyloxy-4-nitrophenyl) methanesulfonamide, [DUP-697] 5-bromo-2-(4-fluorophenyl)-3-(4-methylsulfonyl) thiophene, meloxicam, 6-methoxy-2-naphthylacetic acid, nabumetone, etodolac, nimesulide, [SC-57666] 1-fluoro-4-(2-(4-(methylsulfonyl)-phenyl)-1-cyclopenten-1-yl)-benzene, [T-614] N-(3-formylamino-4-oxo-6-phenoxy-4H-chromen-7-yl) methanesulfonamide, and combinations thereof;

- b) a muscle relaxant selected from the group consisting of alcuronium, alosetron, aminophylline, baclofen, carisoprodol, chlorphenesin, chlorphenesin carbamate, chlorzoxazone, chlormezanone, cyclobenzaprine, dantrolene, decamethonium, diazepam, dyphylline, eperisione, ethaverine, gallamine triethiodide, hexafluorenium, mephenesin, metaxalone, methocarbamol, metocurine iodide, orphenadrine, pancuronium, papaverine, pipecuronium, pridinol, succinylcholine, theophylline, tizanidine, tolperisone, tubocurarine, vecuronium, idrocilamide, ligustilide, cnidilide, and senkyunolide and combinations thereof; and
- c) at least one pharmaceutical excipient.
- 41) (Previously added) The composition of claim 40, wherein the at least one pharmaceutical excipient is independently selected from the group consisting of an acidifying agent, adsorbent, alkalizing agent, antioxidant, buffering agent, colorant, flavorant, sweetening agent, tablet antiadherent, tablet binder, tablet and capsule diluent, tablet direct compression excipient, tablet disintegrant, tablet glidant, tablet lubricant, tablet or capsule opaquant, plasticizer, surface active agent, solvent, oil, soap, detergent, and tablet polishing agent.
- 42) (Previously added) The composition of claim 41, the weight ratio of COX-II inhibitor to muscle relaxant varies from (12.5:2.2) to (50:8).
- 43) (Amended) The composition of claim 40, wherein the COX-II inhibitor and muscle relaxant are independently provided in each occurrence in controlled release form, sustained release form, [immediate,] timed release form, [slow or rapid release form] or in a form wherein complete release of drug occurs within two hours of beginning of its release.
- 44) (Amended) The composition of claim 43, wherein release of at least one of the COX-II inhibitor and muscle relaxant [are independently further provided in each occurrence in delayed or targeted release form] begins after expiration of a lag period and/or release of at least one of the COX-II inhibitor and the muscle relaxant is targeted in a subject to which the composition is administered.
- 45) (Previously added) The composition of claim 40, wherein at least one of the COX-II inhibitor and muscle relaxant are independently provided in each occurrence in pseudo-first order, first order, pseudo-zero order, or zero order release form.
- 46) (Previously added) A pharmaceutical dosage form comprising the pharmaceutical composition of claim 40.

- 47) (Previously added) A pharmaceutical dosage form comprising the pharmaceutical composition of claim 41.
- 48) (Previously added) A pharmaceutical dosage form comprising the pharmaceutical composition of claim 42.
- 49) (Previously added) A pharmaceutical composition comprising:
 - a) a COX-II inhibitor selected from the group consisting of rofecoxib and celecoxib;
 - b) pridinol; and
 - c) at least one pharmaceutical excipient.
- 50) (Previously added) The pharmaceutical composition of claim 49, wherein the at least one pharmaceutical excipient is independently selected from the group consisting of an acidifying agent, adsorbent, alkalizing agent, antioxidant, buffering agent, colorant, flavorant, sweetening agent, tablet antiadherent, tablet binder, tablet and capsule diluent, tablet direct compression excipient, tablet disintegrant, tablet glidant, tablet lubricant, tablet or capsule opaquant, plasticizer, surface active agent, solvent, oil, soap, detergent, and tablet polishing agent.
- 51) (Previously added) The composition of claim 49, the weight ratio of COX-II inhibitor to pridingly varies from (12.5:2.2) to (50:8).
- 52) (Amended) The composition of claim 49, wherein the COX-II inhibitor and pridinol are independently provided in each occurrence in controlled release form, sustained release form, [immediate,] timed release form, [slow or rapid release form] or in a form wherein complete release of drug occurs within two hours of beginning of its release.
- 53) (Amended) The composition of claim 52, wherein release of at least one of the COX-II inhibitor and pridinol [are independently further provided in each occurrence in delayed or targeted release form] begins after expiration of a lag period and/or release of at least one of the COX-II inhibitor and pridinol is targeted in a subject to which the composition is administered.
- 54) (Previously added) The composition of claim 49, wherein at least one of the COX-II inhibitor and pridingly are independently provided in each occurrence in pseudo-first order, first order, pseudo-zero order, or zero order release form.

A third composition (forming a drug-containing coat) was prepared by mixing rofecoxib (50.00 g), microcrystalline cellulose (250.00 g), lactose monohydrate (177.6 g), corn starch (57.00 g) and povidone (25.00 g). This mixture was wetted with a mixture of alcohol (96°, 100.00 ml) and Polysorbate 20 (1.60 g). This wet mixture was then granulated and dried at 40-50°C for 3 hours. The dried granulate was screened and mixed with colloidal silicon dioxide (4.10 g). This mixture was mixed to homogeneity with magnesium stearate (4.70 g). This final mixture was then compressed about the inert coat using biconcave 14.50 mm diameter punches. The coat had a final weight of about 570.0 mg and a hardness of about 7-12 kP.

A final composition (for forming the finish coat) was prepared by mixing HPMC 2910 (12.10 g), PEG 6000 (3.41 g), and titanium dioxide (4.48 g) in a mixture of methylene chloride and alcohol (96°) (70:30 v/v). The final composition was sprayed onto the drug-containing coat in a conventional pan coater to obtain film-coated tablets which membranes weigh about 20 mg.

In one embodiment the weight ratio of COX-II inhibitor to muscle relaxant varies from (12.5:2.2) to (50:8). In one embodiment, the dosage form provides therapeutic plasma levels for the COX-II inhibitor in the range of about 90 ng to about 300 ng per ml of plasma in a subject after administration to the subject.

The above is a detailed description of particular embodiments of the invention. It is recognized that departures from the disclosed embodiments may be made within the scope of the invention and that obvious modifications will occur to a person skilled in the art. Those of skill in the art should, in light of the present disclosure, appreciate that many changes can be made in the specific embodiments which are disclosed herein and still obtain a like or similar result without departing from the spirit and scope of the invention. All of the embodiments disclosed and claimed herein can be made and executed without undue experimentation in light of the present disclosure.

Home Quick Advanced Pat Num Help

Next List Bottom View Cart

Searching 1976 to present...

Results of Search in 1976 to present db for: ACLM/"immediate release": 213 patents.

Hits 1 through 50 out of 213

Next 50 Hits

PAT.

NO.

- 1 6,576,666 T Nutritional supplements
- 2 6.572.890 T Osmotic device containing venlafaxine and an anti-psychotic agent
- 3 6,572,885 T Orally administrable opioid formulations having extended duration of effect
- 4 6.569,857 **T** Dietary supplement
- 5 6,569,463 **T** Solid carriers for improved delivery of hydrophobic active ingredients in pharmaceutical compositions
- 6 6,569,456 T Osmotic device containing diltiazem and an ACE inhibitor or diuretic
- 7 6,565,882 **T** Antibiotic composition with inhibitor
- 8 6,562,826 T Sustained release ranolazine formulations
- 9 6,558,707 **T** Immediate release eplerenone compositions
- 10 6,558,699 **T** High drug load immediate and modified release oral dosage formulations and processes for their manufacture
- 11 <u>6,557,374</u> **T** Tunnel fire suppression system and methods for selective delivery of breathable fire suppressant directly to fire site
- 12 6,555,581 T Levothyroxine compositions and methods
- 13 6,555,576 T Method for treating exercise induced asthma
- 14 6,555,136 **T** Pharmaceutical dosage form for pulsatile delivery of methylphenidate
- 15 6,544,555 **T** Antibiotic product, use and formulation thereof
- 16 6,544,554 **T** Regulated release preparations
- 17 6,541,014 **T** Antiviral product, use and formulation thereof
- 18 6.540.993 T Method of treating inflammatory bowel disease using a topical formulation of IL-11

- 19 6,537,573 T Combination dosage form comprising cetirizine and pseudoephedrine
- 20 6,534,093 T Immediate release eplerenone compositions
- 21 6,528,538 T Cyclic compounds useful in the treatment of dyslipidaemia, atherosclerosis and diabetes, pharamaceutical compositions and preparation process
- 22 6,524,619 T Dosage forms useful for modifying conditions and functions associated with hearing loss and/or tinnitus
- 23 6,521,255 T Osmotic device containing ranitidine and a prokinetic agent
- 24 6,521,253 **T** Immediate release tablet
- 25 6,517,866 T Sertraline salts and sustained-release dosage forms of sertraline
- 26 6,514,531 T Controlled-release dosage forms comprising zolpidem or a salt thereof
- 27 6,509,499 T Nitromethylthiobenzene derivatives as inhibitors of aldose reductase
- 28 6,505,597 T Cleansing oil filter containing quick-release liquid antioxidant/additive solution, and method of using same to convert an engine from petroleum-based oil to botanically-based oil
- 29 6.500.457 T Oral pharmaceutical dosage forms for pulsatile delivery of an antiarrhythmic agent
- 30 6,500,454 T Timed, sustained release systems for propranolol
- 31 6.495,162 T Controlled release oral tablet having a unitary core
- 32 6,485,746 T Controlled-release sedative-hypnotic compositions and methods related thereto
- 33 6,482,437 T Morphine sulfate microgranules, manufacturing process and pharmaceutical preparations
- 34 6,469,035 **T** Methods of pretreating hyperlipidemic individuals with a flush inhibiting agent prior to the start of single daily dose nicotinic acid therapy to reduce flushing provoked by nicotinic acid
- 35 6,465,012 **T** Pharmaceutical tablet formulation containing gabapentin with improved physical and chemical characteristics and method of making the same
- 36 6,455,557 T Method of reducing somnolence in patients treated with tizanidine
- 37 6,451,808 T Inhibition of emetic effect of metformin with 5-HT3 receptor antagonists
- 38 6,428,049 T Seat belt release mechanism
- 39 6,423,339 T Liquisolid systems and methods of preparing same
- 40 6,419,960 **T** Controlled release formulations having rapid onset and rapid decline of effective plasma drug concentrations
- 41 6,410,054 T Immediate release eplerenone compositions
- 42 6,406,715 **T** Intermediate release nicotinic acid compositions for treating hyperlipidemia having unique urinary metabolite profiles
- 43 6.399.100 T Controlled release pharmaceutical compositions containing tiagabine
- 44 6.387,404 T Immediate release tablet cores of insoluble drugs having sustained-release coating
- 45 6.372,255 T Tablet for instant and prolonged release of one or more active substances
- 46 6,372,254 T Press coated, pulsatile drug delivery system suitable for oral administration
- 47 6,372,252 T Guaifenesin sustained release formulation and tablets
- 48 6,368,634 T High release solid preparation, preparation and use thereof
- 49 6,344,215 T Methylphenidate modified release formulations
- 50 6,342,245 T Compositions of lipid lowering agents

Next List Top View Cart

Home	<u>Quick</u>	Advanced	Pat Num	Help
Prev.	List Nex	t List Bot	tom View	Cart

Searching 1976 to present...

Results of Search in 1976 to present db for: ACLM/"immediate release": 213 patents. Hits 51 through 100 out of 213

Prev.:50 Hits

Next:50 Hits

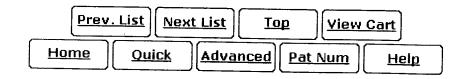
Jump To

Refine Search aclm/"immediate release"

PAT.

- NO.
- 51 6,340,476 **T** Pharmaceutical dosage form for pulsatile delivery of methylphenidate
 52 6,322,819 **T** Oral pulsed dose drug delivery system
- 53 6,309,663 **T** Triglyceride-free compositions and methods for enhanced absorption of hydrophilic therapeutic agents
- 54 6,299,903 T Delayed release pharmaceutical formulation containing a .beta.-lactam antibiotic
- 55 6,297,286 **T** Therapeutic use and formulation
- 56 6,294,199 T Method of treating a bacterial infection comprising administering amoxycillin
- 57 6,270,807 T Taste-masked pharmaceutical composition
- 58 6,264,973 T Apparatus and method for anesthetizing the cervical region of a female
- 59 6,258,846 T Nutritional supplements
- 60 6,254,891 **T** Extended release acetaminophen
- 61 6,248,363 T Solid carriers for improved delivery of active ingredients in pharmaceutical compositions
- 62 6,238,702 **T** High load formulations and methods for providing prolonged local anesthesia
- 63 6,238,699 T Pharmaceutical formulations containing a combination of carbidopa and levidopa
- 64 6,228,398 T Multiparticulate modified release composition
- 65 6,221,394 **T** Dosage forms
- 66 6,214,379 T Maximizing effectiveness of substances used to improve health and well being
- 67 6,210,714 **T** Immediate release tablet cores of acetaminophen having sustained-release coating
- 68 6,207,190 T Dosage forms for the treatment of the chronic glaucomas

- 69 6,197,329 T Anti-nausea compositions and methods
- 70 6,194,000 T Analgesic immediate and controlled release pharmaceutical composition
- 71 6,191,151 **T** Therapy for herpes neurological viral conditions utilizing 1,4-dihydropyridine calcium channel blockers
- 72 6,183,861 T Conformable composite chemical barrier closure and attachment tape
- 73 6.183,780 T Oral delayed immediate release formulation and method for preparing the same
- 74 6,183,778 **T** Pharmaceutical tablet capable of liberating one or more drugs at different release rates
- 75 6,174,890 T Anti-stress, anti-impairment and anti-aging drug and process for manufacturing thereof
- 76 6,174,514 T Breath Freshening chewing gum with encapsulations
- 77 6,171,618 T Combination dosage form comprising cetirizine and pseudoephedrine
- 78 6,168,805 T Aqueous process for manufacturing paroxetine solid dispersions
- 79 6,156,342 **T** Controlled release oral dosage form
- 80 6,143,327 T Delayed release coated tablet of bupropion hydrochloride
- 81 6,143,325 **T** Nefazodone dosage form
- 82 6,131,026 T Release resource message transmission for unsupported calling service calls
- 83 6,126,967 **T** Extended release acetaminophen particles
- 84 6,126,933 T Methods of treating inflammatory bowel diseases by administering IL-11
- 85 <u>6,119,688</u> **T** Powder dispenser
- 86 6,110,494 T Cisapride mini-tablet formulations
- 87 6,106,861 T Multiparticulate tablet disintegrating in less than 40 seconds in the mouth
- 88 6,103,219 T Pharmaceutical excipient having improved compressibility
- 89 6,099,859 T Controlled release oral tablet having a unitary core
- 90 6,096,696 T Alkaline composition for removing protein deposits
- 91 6.096,341 T Delayed release tablet of bupropion hydrochloride
- 92 6.096.337 T Liquisolid systems and methods of preparing same
- 93 6,090,830 T Controlled release compositions and methods for the treatment of hyperlipidemia
- 94 6,077,537 **T** Non-sedating acrivastine product
- 95 6,077,533 T Powder-layered oral dosage forms
- 96 6,076,074 **T** System and method for intraday netting payment finality
- 97 6,074,670 **T** Fenofibrate pharmaceutical composition having high bioavailability and method for preparing it
- 98 6.068,854 T Sol-controlled thermocolloid matrix based on gelatin for oral sustained-release form
- 99 6,066,339 T Oral morphine multiparticulate formulation
- 100 6,066,332 T Immediate-effect ibuprofen-containing medicament and its use



<u>Home</u>	Quick	Advar	nced	Pat !	lum	<u>Help</u>
Prev	. List Nex	t List	Bott	<u>om</u>	View	Cart

Searching 1976 to present...

Results of Search in 1976 to present db for: ACLM/"immediate release": 213 patents. Hits 101 through 150 out of 213

Prev.:50 Hits
Next:50 Hits

Refine Search aclm/"immediate release"

PAT.

NO.

- 101 6,056,968 **T** Pharmaceutical drug dosage forms providing different release rates
- 102 6,046,187 T Formulations and methods for providing prolonged local anesthesia
- 103 6,043,281 T Nitromethyl ketones, process for preparing them and compositions containing them
- 104 6,039,974 T Pharmaceutical composition for combination of piperidinoalkanol-decongestant
- 105 6,033,686 T Controlled release tablet of bupropion hydrochloride
- 106 6,024,982 T Immediate release tablet cores of insoluble drugs having sustained-release coating
- 107 <u>6,015,395</u> **T** Lower back support
- 108 6.010.718 T Extended release formulations of erythromycin derivatives
- 109 6,004,582 T Multi-layered osmotic device
- 110 5,989,535 T Polymeric bioadhesive emulsions and suspensions and methods of treatment
- 111 5,985,843 T Pharmaceutical composition containing sucralfate
- 112 5,981,555 T Compositions, kits and methods for administration of antilipemic drugs
- 113 5,958,458 T Pharmaceutical multiple unit particulate formulation in the form of coated cores
- 114 5,955,500 **T** Pharmaceutical compositions containing non-racemic verapamil and process for optimizing the pharmaceutical activity of R- and S-verapamil
- 115 5,945,123 T Maximizing effectiveness of substances used to improve health and well being
- 116 5,942,241 **T** Formulations and methods for providing prolonged local anesthesia
- 117 5,932,765 T Nitromethyl ketones, process for preparing them and compositions containing them
- 118 5,932,245 T Gelatin or collagen hydrolysate containing drug formulation that provides for immediate

- 119 5,922,340 **T** High load formulations and methods for providing prolonged local anesthesia
- 120 3,869,084 T Multi-vitamin and mineral supplements for women
- 12: 5,858,412 T Sustained release formulations utilizing pharmaceutical excipient having improved compressibility with modified microcrystalline
- 122 5,837,277 T Palatable pharmaceutical compositions
- 123 5,807,579 T Pseudoephedrine combination pharmaceutical compositions
- 124 5,795,592 **T** Pharmaceutical composition to enhance tissue healing and regeneration and application kit
- 125 5,792,109 T Irrigation pump and system
- 126 5,785,994 **T** Method for administering drug to gastrointestinal tract
- 127 5,773,453 T Methods for administration of antilipemic drugs
- 128 5,756,125 T Controlled release naproxen sodium plus naproxen combination tablet
- 129 5,747,060 T Prolonged local anesthesia with colchicine
- 130 5.741,524 T Sustained-release formulations utilizing pharmaceutical excipient having improved
- 131 5,707,652 T Methods of treating circadian rhythm phase disorders
- 132 5,650,169 T Pharmaceutical tablet capable of releasing the active ingredients contained therein at
- 133 5,645,858 T Multilayered controlled release pharmaceutical dosage form
- 134 5.633,285 T Cytoprotective wound healing compositions and methods for preparing and using same
- 135 5,609,909 T Prolamine coatings for taste masking
- 136 5,609,884 T Controlled release naproxen sodium plus naproxen combination tablet
- 137 5,595,762 T Stabilized pulverulent active agents, compositions containing them, process for obtaining
- 138 5,578,316 **T** Palatable pharmaceutical compositions
- 139 5,576,022 T Controlled release tacrine drug delivery systems and methods for preparing same
- 140 5,574,315 T Method and apparatus enabling emergency activated control of electrically operated door lock and window regulator systems in a motor vehicle
- 141 5,558,879 T Controlled release formulation for water soluble drugs in which a passageway is formed in
- 142 5,508,044 T Diltiazem pharmaceutical spheroid formulation
- 143 5,500,227 T Immediate release tablet cores of insoluble drugs having sustained-release coating
- 144 5,492,700 T Process and composition for the development of controlled release gemfibrozil dosage form
- 145 5,487,901 T Process for preparing pharmaceutical tablet capable of releasing the active ingredients contained therein at subsequent times
- 146 5,480,650 T Programmed release tablets containing naproxen
- 147 5,478,577 T Method of treating pain by administering 24 hour oral opioid formulations exhibiting rapid
- 148 5,478,573 T Delayed, sustained-release propranolol pharmaceutical preparation
- 149 5,445,829 T Extended release pharmaceutical formulations
- 150 5.411,745 T Powder-layered morphine sulfate formulations



Home Quick Advanced Pat Num Help

Next List Bottom View Cart

Searching 1976 to present...

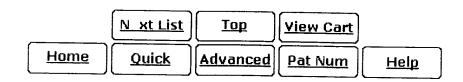
Results of Search in 1976 to present db for: ACLM/"delayed release": 247 patents. Hits 1 through 50 out of 247.

Next 50 Hits

PAT. NO.

- 1 6,576,666 T Nutritional supplements
- 2 6.569.857 T Dietary supplement
- 3 6,569,463 **T** Solid carriers for improved delivery of hydrophobic active ingredients in pharmaceutical compositions
- 4 6,569,456 T Osmotic device containing diltiazem and an ACE inhibitor or diuretic
- 5 6,565,882 **T** Antibiotic composition with inhibitor
- 6 6,558,701 T Multilayer tablet for administering a fixed combination of tramadol and diclofenac
- 7 6,555,137 T Sucralfate-containing composition and process for the preparation thereof
- 8 6,555,136 **T** Pharmaceutical dosage form for pulsatile delivery of methylphenidate
- 9 6,551,617 **T** Taste masking coating composition
- 10 6,548,084 **T** Controlled release compositions
- 11 6,544,555 T Antibiotic product, use and formulation thereof
- 12 6,541,425 T Retarding formulations of active substances used for plant protection
- 13 6,541,014 T Antiviral product, use and formulation thereof
- 14 6,534,549 T Controlled release formulations
- 15 6,528,090 T Controlled release formulation of divalproex sodium
- 16 6,515,010 T Carvedilol methanesulfonate
- 17 6,511,678 T Controlled release formulation of divalproex sodium
- 18 6,509.031 **T** System for polymerizing collagen and collagen composites in situ for a tissue compatible wound sealant, delivery vehicle, binding agent and/or chemically modifiable matrix
- 19 6,500,457 T Oral pharmaceutical dosage forms for pulsatile delivery of an antiarrhythmic agent

- 20 6,500,455 T Tolperison-containing, pharmaceutical preparation for oral administration
- 21 6.498,153 T Extended release growth promoting two component composition
- 22 6,490,245 **T** Method and apparatus for recovering from a signalling failure in a switched connection data transmission network
- 23 6,485,746 T Controlled-release sedative-hypnotic compositions and methods related thereto
- 24 6,485,745 T Solid oral dosage forms of valsartan
- 25 6,468,959 T Peroral dosage form for peptide containing medicaments, in particular insulin
- 26 6,460,446 T Sonic rarefaction wave recoilless gun system
- 27 6,458,383 **T** Pharmaceutical dosage form for oral administration of hydrophilic drugs, particularly low molecular weight heparin
- 28 6,436,438 **T** Tramadol multiple unit formulations
- 29 6.428.788 T Compositions and methods for specifically targeting tumors
- 30 6.403.634 **T** Use of taxoid derivatives
- 31 6.403,597 T Administration of phosphodiesterase inhibitors for the treatment of premature ejaculation
- 32 6,401,819 T Methods for deposition of materials in underground reservoirs
- 33 6,395,727 **T** Method of treating Bulimia Nervosa and related eating disorders by administration of atypical antipsychotic medications
- 34 6,387,924 T Benzothiepines having activity as inhibitors of ileal bile acid transport and taurocholate uptake
- 35 6,372,799 T Non-sedating diphenhydramine metabolites
- 36 6,368,580 **T** Composition suitable as food integrator and for the treatment of intestinal disorders and alterations of the bacterial flora
- 37 6,358,528 T Pharmaceutical formulation
- 38 6,352,721 T Combined diffusion/osmotic pumping drug delivery system
- 39 6,350,471 T Tablet comprising a delayed release coating
- 40 6,340,476 T Pharmaceutical dosage form for pulsatile delivery of methylphenidate
- 41 6,338,847 T Compositions and methods to disinfect contact lenses
- 42 6,335,351 T Hydroxylansoprazole compositions and methods
- 43 6,309,893 T Assay method with improved release of soluble reagents
- 44 6,309,663 **T** Triglyceride-free compositions and methods for enhanced absorption of hydrophilic therapeutic agents
- 45 6,300,343 **T** Method of treatment
- 46 6,299,903 T Delayed release pharmaceutical formulation containing a .beta.-lactam antibiotic
- 47 6,280,744 T Use of inorganic aerogels in pharmacy
- 48 6,270,805 **T** Two pellet controlled release formulation for water soluble drugs which contains an alkaline metal stearate
- 49 6.270,798 T Lozenge for the modified releasing of active substances in the gastrointestinal tract
- 50 6,267,990 **T** Controlled-release pharmaceutical preparation comprising an ACE inhibitor as active ingredient



<u>Home</u>	Qui	<u>ick</u>	Adva	nced	Pat	<u>Num</u>	Help
Prev	List	Next	List	Bott	om	View	Cart

Searching 1976 to present...

Results of Search in 1976 to present db for: ACLM/"delayed release": 247 patents.

Hits 51 through 100 out of 247

Prev. 50 Hits

Next 50 Hits

Jump To

Refine Search | aclm/"delayed release"

PAT.

NO.

- 51 6,258,846 T Nutritional supplements
- 52 6,258,591 **T** One-pack preparation for disinfection, neutralization and cleaning of contact lenses and method of disinfection, neutralization and cleaning
- 53 6,251,429 **T** Programmed release ambroxol--HCl dosage forms
- 54 6,248,363 T Solid carriers for improved delivery of active ingredients in pharmaceutical compositions
- 55 6,232,274 T Viscoelastic surfactant based gelling composition for wellbore service fluids
- 56 6,221,393 T Pharmaceutical compositions in the form of sustained-release tablets based on high molecular weight polysaccharide granules
- 57 6,218,421 **T** Method of promoting smoking cessation
- 58 6,217,904 **T** Pharmaceutical dosage form for pulsatile delivery of d-threo-methylphenidate and a second CNS stimulant
- 59 6,214,379 T Maximizing effectiveness of substances used to improve health and well being
- 60 6,210,639 T Apparatus, method and composition for cleaning and disinfecting
- 61 6,187,720 T Delayed release breakers in gelled hydrocarbons
- 62 6,174,899 T Orally administered analgesic composition comprising myfadol
- 63 6,165,415 T Systems and methods for disinfecting contact lenses
- 64 6.162,463 T Extended release formulation of diltiazem hydrochloride
- 65 6,159,501 T Modified release multiple-units dosage composition for release of opioid compounds
- 66 6.143.327 T Delayed release coated tablet of bupropion hydrochloride

- 67 6,132,773 **T** Method for preparing particles comprising a core and a silica shell
- 68 6,114,382 T Methods for treating inflammatory bowel disease
- 69 6.103,263 T Delayed pulse release hydrogel matrix tablet
- 70 6,096,696 T Alkaline composition for removing protein deposits
- 71 6.096,341 T Delayed release tablet of bupropion hydrochloride
- 72 6,083,520 **T** Bioactive feed
- 73 6.071,959 **T** Pharmaceutical products containing a complex of an amide-type local anesthetic and a polyacrylate
- 74 6,020,002 **T** Delivery of controlled-release system(s)
- 75 6,004,546 T Pharmaceutical composition containing bismuth-polyacrylic acid compounds
- 76 5,993,505 T Controlled release fertilizer compositions and processes for the preparation thereof
- 77 5,985,843 T Pharmaceutical composition containing sucralfate
- 78 5,985,319 T Multi-phase compositions for an initial and delayed release of a vaginal medicament
- 79 5,958,873 T Oral formulation for treatment of bacteria-induced diseases of the colon
- 80 5,948,735 T Use of breaker chemicals in gelled hydrocarbons
- 81 5,948,248 T Coolant filter having a delayed release supplemental coolant additive cartridge
- 82 5,945,123 T Maximizing effectiveness of substances used to improve health and well being
- 83 5,925,344 T Pharmaceutical composition and uses therefor
- 84 5,922,352 T Once daily calcium channel blocker tablet having a delayed release core
- 85 5,922,317 T Accelerated gas removal from divers' tissues utilizing gas metabolizing bacteria
- 86 5,910,322 **T** Delayed release pharmaceutical formulation containing amoxycillin and potassium clavulanate
- 87 5,908,829 T Use of MCP-1 for inducing ripening of the cervix
- 88 5,908,634 T Animal feed containing molasses bentonite and zeolite
- 89 5,889,028 T Colonic delivery of nicotine to treat inflammatory bowel disease
- 90 5,871,776 T Controlled-release nifedipine
- 91 5,853,762 T Delivery of controlled-release system(s)
- 92 5,846,983 T Colonic delivery of nicotine to treat inflammatory bowel disease
- 93 5,844,072 **T** Antibiotic cryptdin peptides and methods of their use
- 94 5,843,482 T Products and processes for the treatment of the alimentary canal
- 95 5.795,592 **T** Pharmaceutical composition to enhance tissue healing and regeneration and application kit comprising it
- 96 5,783.532 T Enzyme compositions and methods for contact lens cleaning
- 97 5,767,066 T Medical application of bromelain
- 98 5.760,093 T Halohydrocarbon-free delayed release lacquer solution for pharmaceutical preparation
- 99 5,756,125 T Controlled release naproxen sodium plus naproxen combination tablet
- 100 5,747,438 **T** Machine dishwashing detergent containing coated percarbonate and an acidification agent to provide delayed lowered pH

Prev. List Next List Top View Cart

<u>Home</u>	Quick	Advanced	Pat Nun	n Help
Prev	. List Nex	t List Bot	ttom Vi	ew Cart

Searching 1976 to present...

Results of Search in 1976 to present db for: ACLM/"delayed release": 247 patents.

Hits 101 through 150 out of 247

Prev: 50 Hits:

Next: 50 Hits:

Jump To

Refine Search aclm/"delayed release"

PAT.

NO.

Title

- 101 5,733,577 **T** Delivery of controlled-release system (s)
- 102 5,717,087 **T** Thermoplastic and biodegradable polysaccharide esters/polysaccharide ether esters containing maleic acid addition product groups
- 103 5,716,923 **T** Laundry detergent containing a coated percarbonate and an acidification agent to provide delayed lowered pH
- 104 5,711,961 **T** Pharmaceutical compositions based on chewing gum and a method for the preparation thereof
- 105 5,710,181 T Inhibition of nitric oxide formation in inflammatory bowel disease
- 106 5,693,340 T Delayed-release form for pharmaceutical active compounds
- 107 5,681,588 T Delayed release microtablet of .beta.-phenylpropiophenone derivatives
- 108 5,678,632 T Acidizing underground reservoirs
- 109 <u>5,667,803</u> **T** <u>Starch acetate composition with modifiable properties, method for preparation and usage thereof</u>
- 110 5,662,935 T Process for preparing controlled release pharmaceutical forms and the forms thus obtained
- 111 5,649,596 T Use of breaker chemicals in gelled hydrocarbons
- 112 5,645,848 T Controlled release composition for active substances into an aqueous medium
- 113 5,631,296 T Drugs containing S(+)-ibuprofen
- 114 5,629,018 **T** Composition for controlled release of an active substance and method for the preparation of such a composition

T

- 115 5,622,721 Dosage forms of risedronate
- 116 5,622,716 T Process for preparing a retard product containing diltiazem for a single daily administration
- 117 5.618.544 T Method of decreasing cutaneous senescence
- 118 5,609,884 T Controlled release naproxen sodium plus naproxen combination tablet
- 119 5.595.762 **T** Stabilized pulverulent active agents, compositions containing them, process for obtaining them and their applications
- 120 5,591,397 T Double redox system for disinfecting contact lenses
- 121 5,578,240 T Compositions and methods for identifying a solution
- 122 5,574,097 **T** Chemical compounds
- 123 5,536,507 T Colonic drug delivery system
- 124 5,534,250 T Polymers containing diester units
- 125 5,522,175 T Natural savory and umami flavoring materials from dehydrated mushroom
- 126 5,505,963 T Slow release pharmaceutical preparation
- 127 5,498,515 **T** Photographic element containing a certain sulfonated acylacetanilide coupler in combination with low- or non-chloride emulsions
- 128 5,496,376 T Carbonate built laundry detergent composition containing a delayed release polymer
- 129 5,484,609 T Therapeutic compositions and methods
- 130 5,470,584 T Diltiazem formulation
- 131 5,462,848 **T** Color photographic materials including magenta coupler, inhibitor-releasing coupler and carbonamide compound, and methods
- 132 5,462,713 T Double redox system for disinfecting contact lenses
- 133 5,455,987 **T** One-piece hinge
- 134 5,453,283 **T** Orally administered solvent-free pharmaceutical preparation with delayed active-substance release, and a method of preparing the preparation
- 135 5,453,216 T Delayed-release encapsulated warewashing composition and process of use
- 136 5,451,493 **T** Photographic element containing a certain sulfonated acylacetanilide coupler in combination with a development inhibitor releasing coupler
- 137 5,439,689 T Diltiazem formulation
- 138 5,430,030 **T** Nerve gas antidote
- 139 5,427,592 T Intact seed-based delayed-released nutrient supplement for mushroom cultivation
- 140 5,426,120 **T** Pharmaceutical composition containing .gamma.-hydroxybutyric acid or its lactone in the treatment of drug dependence and nutritional disorders
- 141 5,422,117 T Multiphase pharmaceutical formulations
- 142 5,413,793 T Multiphase suppository
- 143 5,393,525 **T** Contrast medium comprising superparamagnetic or ferromagnetic particles capable of increasing viscosity after administration
- 144 5,378,472 **T** Methyl pyrrolidinone chitosan, production process and uses thereof
- 145 5,376,519 **T** Photographic material containing a coupler composition comprising magenta coupler, phenolic solvent, and at least one aniline or amine
- 146 5,338,480 T Compositions and methods to clean contact lenses
- 147 5,336,434 T Methods, compositions and apparatus to disinfect lenses
- 148 5.334,396 T Chewing gum sweetened with alitame and having a high level of lecithin
- 149 5,324,447 T Method and activator compositions to disinfect lenses

EXHIBIT C

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

Home Quick Advanced Pat Num Help

Next List Bottom View Cart

Searching 1976 to present...

Results of Search in 1976 to present db for:

ACLM/"slow release": 508 patents.

Hits 1 through 50 out of 508

Next 5	O Hi	်း	
Jump T	o		

Refine Search aclm/"slow release"

PAT. NO.

- 1 6,574,913 T Semiochemical and sonic signals for monitoring and control of clothes moths
- 2 6,566,338 **T** Caspase inhibitors for the treatment and prevention of chemotherapy and radiation therapy induced cell death
- 3 6,565,866 **T** lodophor compositions
- 4 6,565,860 **T** Surfactant coated products and methods for their use in promoting plant growth and soil remediation
- 5 6,558,544 T Pressure vessels for holding cylindrical semipermeable membrane cartridges
- 6 6,553,726 T Barrier against crawling arthropods
- 7 6,552,050 T Method for enhancing protective cellular responses to genotoxic stress in skin
- 8 6,547,747 Withdrawn
- 9 6,544,554 **T** Regulated release preparations
- 10 6,528,049 **T** Bisexual attractants, aggregants and arrestants for adults and larvae of codling moth and other species of lepidoptera
- 11 6,524,333 T Device for therapeutical treatment of a blood vessel
- 12 6,514,531 T Controlled-release dosage forms comprising zolpidem or a salt thereof
- 13 6,506,422 T Nutritional formula for phenylketonuria patients
- 14 6,503,881 **T** Compositions and methods for treating infections using cationic peptides alone or in combination with antibiotics
- 15 6,503,288 T Process for the production of biodegradable encapsulated fertilizers
- 16 6,500,222 T Diureides and their use
- 17 6,498,152 T Use of a farnesyl transferase inhibitor in the manufacture of a medicament for local

administration to the vascular wall in the prevention of restenosis

- 18 6,495,563 **T** Method and composition for prevention of scar formation in glaucoma filtration bleb and drainage fistula
- 19 6,495,522 T Substituted alpha-hydroxy acid caspase inhibitors and the use thereof
- 20 6,472,198 T Slow release substrates for driving microbial transformations of environmental contaminants
- 21 6,464,961 T Polymeric delivery and release systems for oral care actives
- 22 6,464,875 T Food, animal, vegetable and food preparation byproduct treatment apparatus and process
- 23 6,464,864 T Composition for treating aqueous composition contaminants
- 24 6,464,746 T Homogeneous granules of slow-release fertilizer and method of making the same
- 25 6,458,386 T Medicaments based on polymers composed of methacrylamide-modified gelatin
- 26 6,455,569 T Connective tissue softening
- 27 6,455,542 T Piperidine and pyrrolidine derivatives comprising a nitric oxide donor for treating stress
- 28 6,451,765 T Methods for treating breast cancer using Mammastatin
- 29 6,448,288 T Cannabinoid drugs
- 30 6,448,267 T Piperidine and pyrrolidine derivatives comprising a nitric oxide donor for treating stress
- 31 6,445,796 T Automatic telephone-line disconnect system
- 32 6,440,427 **T** Tissue treatment composition comprising fibrin or fibrinogen and biodegradable and biocompatible polymer
- 33 6,440,393 T Carbon dioxide enhancement of inhalation therapy
- 34 6,428,785 T Method and composition for treating prostate cancer
- 35 6,391,911 T Coadministration of lucanthone and radiation for treatment of cancer
- 36 6,389,745 T Sheet for growing grass seeds and grass seed mat using same
- 37 6,387,145 T Fine granulated fertilizer formulation for seed/plant placement at seeding or transplanting
- 38 6,383,516 T Sustained-release microgranules containing diltiazem as active principle
- 39 6,372,238 **T** Method of using implants to fertilize, control growth and fungal and insect attack on banana or plantain
- 40 6,370,820 T Self-watering vertical supporting planter
- 41 6,364,925 T Polyurethane encapsulated fertilizer having improved slow-release properties
- 42 6,358,954 **T** PDGF receptor kinase inhibitory compounds, their preparation, purification and pharmaceutical compositions including same
- 43 6,358,939 **T** Use of biologically active vitamin D compounds for the prevention and treatment of inflammatory bowel disease
- 44 6,358,296 T Slow-release polyurethane encapsulated fertilizer using oleo polyols
- 45 6,344,208 T Pheromone baits for social insects
- 46 6,338,387 T Downward energized motion jars
- 47 6,337,329 T Oxazolidinones to treat eye infections
- 48 6,336,949 **T** Slow release urea fertilizer composition and a process for the preparation of the said composition
- 49 6.335.331 **T** Pseudopolymorphic forms of 2-[2-[4-[Bis (4-fluorophenyl) methyl]-1-piperazinyl]ethoxy] acetic acid dihydrochloride
- 50 6,328,959 T Intestinal hydrogen removal using hydrogen-metabolizing microbes

<u>Home</u>	<u>Quick</u>	Advanced	Pat	<u>Num</u>	<u>Help</u>
Prev	. List Nex	t List Bo	<u>ttom</u>	View	Cart

Searching 1976 to present...

Results of Search in 1976 to present db for:

ACLM/"slow release": 508 patents. Hits 51 through 100 out of 508

Prev: 50 Hits

Next: 50 Hits

Refine Search aclm/"slow release"

PAT.

- 51 6,326,022 **T** Slow-release disposable elastomeric buccal devices
- 52 6,325,934 **T** Enzyme and bacterial combination in a slowly dissolvable matrix for septic tanks, grease traps and waste treatment
- 53 6,316,427 **T** Treatment for diabetes
- 54 6,316,031 **T** Stabilized controlled release substrate having a coating derived from an aqueous dispersion of hydrophobic polymer
- 55 6,316,008 T Combination of zinc ions and vitamin C and method of making
- 56 6,312,705 T Iodophor compositions
- 57 6,309,370 **T** Intracardiac drug delivery
- 58 6,306,804 **T** Bilge Cleaning Product
- 59 6,297,213 **T** Osteogenic devices
- 60 6,290,990 T Slow-release matrix pellets and the production thereof
- 61 RE37,369 T Slow release coolant filter
- 62 6,287,849 T Microbiological testing of a liquid sample
- 63 6,280,772 T Polyester/carboxylic acid composite materials
- 64 6,277,932 T Polymerization processes and products
- 65 6,277,411 T Pharmaceutical formulation containing DFMO for the treatment of cancer
- 66 6,264,939 T Bisexual attractants, aggregants and arrestants for adults and larvae of codling moth and other species of lepidoptera

- 67 6,261,997 T Slow release formulations of pesticides
- 68 RE37,262 T Herbal compositions for treatment of gastrointestinal disorders
- 69 6.242,381 T Influencing the activity of plant growth regulators
- 70 6,238,554 T Fuel filter including slow release additive
- 71 6,225,258 T Controlled release pesticide and fertilizer briquettes
- 72 6,217,770 T Apparatus and method for treatment of water
- 73 6,214,377 T Melatonin for the production of a peroral pulsatile form of medication
- 74 6,209,646 T Controlling the release of chemical additives in well treating fluids
- 75 6,206,945 T Method of producing artificial guano
- 76 6,199,316 **T** Apparatus for providing a slow release of a compressed gas and an insect trap incorporating same
- 77 6,197,757 **T** Particles, especially microparticles or nanoparticles, of crosslinked monosaccharides and oligosaccharides, processes for their preparation and cosmetic, pharmaceutical or food compositions in which they are present
- 78 6.192,623 T Plant feeder for long term, low maintenance and accurate feeding of potted plants
- 79 6,192,128 T Current-sensitive telephone-line disconnect system
- 80 6,180,661 **T** Bioflavonol-glycoside peresters and their incorporation into pharmacologically active concentrates and ultramicroemulsions
- 81 6,180,127 T Slow release insect repellents
- 82 6,174,917 **T** Method of treating liver disease and like indications with vasodilating agents
- 83 6,174,549 T Gel products from plant matter
- 84 6,165,550 T Symmetrical Polyurea-urethane fertilizer encapsulation
- 85 6.159.460 T Method for treating interleukin-1 mediated diseases
- 86 6.156,738 T Diabetic supplement bar
- 87 6,153,094 T Wastewater treatment method and apparatus
- 88 6,152,981 T Sulfur containing isocyanate compositions
- 89 6,149,960 T Process and formulation for a chemically leavened dough or bakery product
- 90 6,146,589 **T** Assay device for detecting the presence of an analyte involving sequential delivery of reagents through a liquid circuit
- 91 6,139,860 **T** Method of stimulating cilia
- 92 6,138,289 T Automatic toilet seat lowering device
- 93 6,133,320 **T** Treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors
- 94 6,132,772 T Extended-release solid oral dosage forms of drugs having low solubility in water
- 95 6,132,768 **T** Oral pharmaceutical composition with delayed release of active ingredient for reversible proton pump inhibitors
- 96 6,132,759 T Medicaments containing gelatin cross-linked with oxidized polysaccharides
- 97 6,132,710 **T** Preventing/treating neonatal NEC by administering lactobacillus salivarius and lactobacillus plantarum or a combination thereof
- 98 6,121,249 **T** Treatment and prevention of cardiovascular diseases with help of aspirin, antioxidants, niacin, and certain B vitamins
- 99 6.120,574 **T** Slow release fertilizer spike
- 100 6,117,856 T Topical bisphosphonates for prevention of bone resorption

<u>Home</u>	<u>Quick</u>	Adva	nced	Pat	<u>Num</u>	Help
Prev	. List Nex	t List	Bott	<u>om</u>	View	Cart

Searching 1976 to present...

Results of Search in 1976 to present db for: ACLM/"slow release": 508 patents.

Hits 101 through 150 out of 508

Prev: 50 Hits

Next: 50 Hits

Jump: To

Refine Search aclm/"slow release"

PAT. NO.

Title

101 6,110,866 T Surfactant coated products and methods for their use in promoting plant growth

102 6,106,836 **T** Container with freeze-dried vaccine components

103 6,105,831 **T** Pitcher-style reusable bottle holder

104 6,080,221 T Vacuum coated particulate fertilizers

105 6,079,145 **T** Fishing lure

106 6.078,793 T High precision controlled gain voice processing system and method

107 6,077,867 T Pig appeasing pheromones to decrease stress, anxiety and aggressiveness

108 6,075,032 **T** Method of preventing proliferation of retinal pigment epithelium by retinoic acid receptor agonists

109 6,074,673 T Slow-release, self-absorbing, drug delivery system

110 6,071,926 T Sleep quality improvement using a growth hormone secretagogue

111 6,071,924 **T** Method of preventing proliferation of retinal pigment epithelium by retinoic acid receptor agonists

112 6,064,900 **T** Monitoring systems

113 6,060,077 T Unit galenical formulation for local hormonotherapy of vaginal dryness

114 6,057,359 **T** Spontaneously dispersible concentrates comprising esters of baccatin-III compounds having antitumor and antiviral activity

115 6,054,400 T Bioactive glasses and their use

116 6.050.368 T Procedure and apparatus for controlling the hoisting motor of an elevator

http://natft uento gov/netaggi/nph Dargor98ggt1-DTOO e.g. ..g. trepoppe a good for the

- 117 6,048,337 T Transdermal perfusion of fluids
- 118 6,039,954 T Herbal compositions for treatment of gastrointestinal disorders
- 119 6,034,057 T Peptide inhibitors of fibronectine
- 120 6,034,056 T Fibronectin adhesion inhibitors
- 121 6.022,827 T Sod or other vegetation having a root support matrix with beneficial plant adjuvants thereon
- 122 6.010.712 **T** Therapeutic use of bFGF to treat conditions involving adhesion of cytotoxic white cells to endothelium
- 123 6,004,260 T Intrauterine delivery arrangement
- 124 6,001,147 T Unsymmetrical polyureaurethane fertilizer encapsulation
- 125 5,998,485 T Method for modulating immune response with inositol
- 126 5,994,402 T Anti-inflammatory and anti-pyretic method
- 127 5,990,183 T Porous particles, porous hollow particles and method of preparing such particles
- 128 5,985,907 T Method for inhibiting growth of methanogens
- 129 5,984,994 T Sulfur coated fertilizers with improved abrasion resistance
- 130 5,981,590 **T** Oral glutamine in the prevention of neonatal necrotizing enterocolitis and other gastrointestinal mucosal damage
- 131 5,981,469 T 78 residue polypeptide (NK-lysine) and its use
- 132 5,980,952 T Pharmaceutical composition for the programmed release of dexfenfluramine
- 133 5,980,739 T Wastewater treatment method and apparatus
- 134 5,977,175 T Methods and compositions for improving digestion and absorption in the small intestine
- 135 5,965,567 T Method for treating nicotine addiction
- 136 5,962,016 T Multivesicular liposomes utilizing neutral lipids to modify in vivo release
- 137 5,958,463 T Agricultural pesticide formulations
- 138 5,958,452 **T** Extruded orally administrable opioid formulations
- 139 5,948,757 **T** High dose IGF-1 therapy
- 140 5,945,124 T Oral pharmaceutical composition with delayed release of active ingredient for pantoprazole
- 141 5,932,580 T PDGF receptor kinase inhibitory compounds their preparation and compositions
- 142 5,932,248 T Controlled release preparations for cytotoxic or cytostatic drugs
- 143 5,927,610 **T** Fertilizer dispensing apparatus
- 144 5,927,006 **T** Ready roots
- 145 5.914.134 T Process for the pulsatile delivery of diltiazem HCL and product produced thereby
- 146 5,905,069 T Methods of decreasing or preventing pain using spicamycin or derivatives thereof
- 147 5,900,244 **T** Insect attractant
- 148 5,898,038 **T** Treatment of osteoporosis and metabolic bone disorders with nitric oxide substrate and/or donors
- 149 5,897,891 T Flavorful zinc compositions for oral use incorporating copper
- 150 5,897,852 T Container with freeze-dried vaccine components



EXHIBIT D

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

Home Quick Advanced Pat Num Help

Next List Bottom View Cart

Searching 1976 to present...

Results of Search in 1976 to present db for:

ACLM/"rapid release": 156 patents.

Hits 1 through 50 out of 156

Next 50 Hits

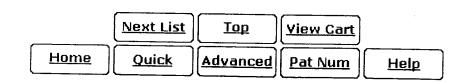
Refine Search aclm/"rapid release"

PAT.

NO.

- 1 6,569,461 T Dihydroxy open-acid and salts of HMG-CoA reductase inhibitors
- 2 6,569,456 T Osmotic device containing diltiazem and an ACE inhibitor or diuretic
- 3 6.555,127 T Multi-spike release formulation for oral drug delivery
- 4 6.542.109 T Autonomous off-board defensive aids system
- 5 6,521,255 T Osmotic device containing ranitidine and a prokinetic agent
- 6 6.495.154 T On demand administration of clomipramine and salts thereof to treat premature ejaculation
- 7 6,491,949 T Osmotic device within an osmotic device
- 8 6,475,521 **T** Biphasic controlled release delivery system for high solubility pharmaceuticals and method
- 9 6,468,959 **T** Peroral dosage form for peptide containing medicaments, in particular insulin
- 10 6,451,808 T Inhibition of emetic effect of metformin with 5-HT3 receptor antagonists
- 11 6,451,345 **T** Functional coating of linezolid microcapsules for taste-masking and associated formulation for oral administration
- 12 6,290,989 **T** Expandable gastro-retentive therapeutic system with controlled active substance release in the gastro-intestinal tract
- 13 6,284,269 T Pharmaceutical compositions of meloxicam with improved solubility and bioavailability
- 14 6,284,264 T Water soluble film for oral administration with instant wettability
- 15 6,277,411 T Pharmaceutical formulation containing DFMO for the treatment of cancer
- 16 6,274,173 **T** Oral pharmaceutical composition with delayed release of active ingredient for pantoprazole
- 17 6,251,427 **T** Pharmaceutical capsule compositions containing loratedine and psuedoephedrine
- 18 6,248,359 T Multi-tablet oxybutynin system for treating incontinence
- 19 6,241,045 **T** Safety structures for pole climbing applications

- 20 6,168,801 T Controlled release drug delivery
- 21 6,153,218 T Biphasic capsule formulation
- 22 6,074,580 **T** Method for the preparation of pearls and pearls obtained containing an active ingredient with an undefined crystallization point
- 23 6,068,856 T Oral pharmaceutical composition with delayed release of active ingredient for pantoprazole
- 24 6,066,334 **T** Use of redispersible polymer powders or polymer granules as binders for producing solid pharmaceutical presentations
- 25 6,063,821 T Transparent rapid release compositions of non-steroidal analgesics
- 26 6,060,266 T Self-contained incubator for growth of microorganism
- 27 6,056,974 T Rapid-release S1452 tablets
- 28 6,050,384 T Method and apparatus for rapid transmission brake release
- 29 6,046,177 T Sulfoalkyl ether cyclodextrin based controlled release solid pharmaceutical formulations
- 30 6.029.947 T Safety valve for fire suppression device
- 31 5,980,952 T Pharmaceutical composition for the programmed release of dexfenfluramine
- 32 5,957,741 T Quick release device for surfboard safety leashes
- 33 5.935,511 T Method of forming and removing thin walled plastic articles from a plurality of dies in a thermoforming apparatus
- 34 5,925,568 T Release and mobilization of haematopoietic cells
- 35 5,910,322 T Delayed release pharmaceutical formulation containing amoxycillin and potassium clavulanate
- 36 5,908,614 T Peroxidase-activating oral compositions
- 37 5,891,233 T Use of bioactive silicious glass and new compositions containing bioactive silicious glass
- 38 5,857,854 **T** Recoil simulator for a weapon
- 39 5,849,330 T Controlled release pharmaceutical
- 40 5,823,972 **T** Pressure transducer bladder pressure and urinary flow measurement apparatus and method
- 41 5,821,438 T Device to alter an atmosphere in an autoclave
- 42 5,744,423 **T** Method and composition for protecting pavement structure from growth of plants in splits of the structure
- 43 5,700,971 T Rapid-release smoke hand grenade
- 44 5,695,784 T Flavor-masked pharmaceutical compositions
- 45 5,667,803 **T** Starch acetate composition with modifiable properties, method for preparation and usage thereof
- 46 5,637,320 T Controlled absorption naproxen formulation for once-daily administration
- 47 5,622,716 T Process for preparing a retard product containing diltiazem for a single daily administration
- 48 5,616,345 T Controlled absorption diltiazen formulation for once-daily administration
- 49 5,609,590 T PH-triggered osmotic bursting delivery devices
- 50 5,606,932 T Implement for automatically milking animals, such as cows



Home	Qui	ick	Adva	nced	Pat	<u>Num</u>	He	lp
Prev.	List	Next	<u>List</u>	Bott	<u>om</u>	View	Cart	

Searching 1976 to present...

Results of Search in 1976 to present db for:

ACLM/"rapid release": 156 patents.

Hits 51 through 100 out of 156

Prev.:50 Hits

Next:50 Hits

Jump To

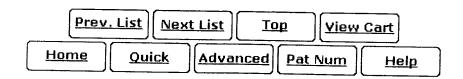
Refine Search aclm/"rapid release"

PAT.

NO.

- 51 5,518,285 **T** Floor for supporting a load
- 52 5,512,055 T Anti-infective and anti-inflammatory releasing systems for medical devices
- 53 5,490,712 **T** Storage of items
- 54 5,439,689 T Diltiazem formulation
- 55 5,437,656 **T** Method and device for inhibiting H.I.V. hepatitis B and other viruses and germs when using a needle, scalpel and other sharp instrument in a medical environment
- 56 5,417,251 T Programmable weft insertion brake for looms
- 57 5,398,724 T High speed electrically actuated gaseous fuel admission valve
- 58 5.392,861 T Residual pollution containment device and method of cleaning a wireline
- 59 5,376,383 T Method for enhancing the lowering of plasma-cholesterol levels
- 60 5,370,881 T Water-soluble delivery systems for hydrophobic liquids
- 61 5,370,879 **T** Formulations and their use in the treatment of neurological diseases
- 62 5,368,861 T Gastric preparation with sustained release
- 63 5,364,620 T Controlled absorption diltiazem formulation for once daily administration
- 64 5,358,502 T PH-triggered osmotic bursting delivery devices
- 65 5,344,411 **T** Method and device for inhibiting HIV, hepatitis B and other viruses and germs when using a catheter in a medical environment
- 66 5,320,853 T Controlled release formulation for pharmaceutical compounds
- 67 5,286,497 T Diltiazem formulation

- 68 5,286,044 T Belted multi-purpose trailer
- 69 5,281,279 T Process for producing refined sugar from raw juices
- 70 5,172,881 T Adjustable dock support
- 71 5.135,086 T Assembly tool with rapid release electromagnetic clutch
- 72 5,120,548 T Swelling modulated polymeric drug delivery device
- 73 5.093,200 T Multilayer sustained release granule
- 74 5.084,278 T Taste-masked pharmaceutical compositions
- 75 <u>5,083,771</u> **T** Novelty item
- 76 5.050,715 **T** Hydraulic control apparatus for vehicle power transmitting system having fluid coupling incorporating lock-up clutch
- 77 5,050,498 T Stencil manufacturing and printing process and apparatus
- 78 5,007,200 **T** Window security system
- 79 5,002,776 T Controlled absorption diltiazem formulations
- 80 4,997,658 T Method for enhancing the lowering of plasma cholesterol levels
- 81 4,978,533 **T** Liquid nifidipine composition
- 82 4,973,277 T Safety belt harness system
- 83 4,968,505 T Long-acting diclofenac sodium preparation
- 84 4,966,772 T DHP delayed release preparation
- 85 4,962,683 T Rotary cutter apparatus
- 86 4,957,044 T Double sided screener for printed circuit boards
- 87 4,940,292 T Rapid release valve mechanism
- 88 4,933,186 T Dihydropyridine depot formulation
- 89 4.931,177 T Composite plate for filter-presses
- 90 4,926,859 T A medical treatment device for treating an undesired formation in a living body
- 91 4.922.716 **T** Throttled exhaust outlet to reservoir for reducing noise resulting from release hydraulic pressure surges
- 92 4,894,240 T Controlled absorption diltiazem formulation for once-daily administration
- 93 4,892,741 **T** Press coated DHP tablets
- 94 4,881,047 T Automatic gain expansion system
- 95 4,866,097 T Controlled release system
- 96 4,863,742 T Controlled absorption pharmaceutical composition
- 97 4,837,030 T Novel controlled release formulations of tetracycline compounds
- 98 4.786,495 **T** Therapeutic agents
- 99 4.783,335 T Controlled topical application of bioactive reagent
- 100 4,772,473 T Nitrofurantoin dosage form



Home	Quick	Advanced	Pat N	lum]	Help
Prev	List Next	List Bott	tom	View	Cart

Searching 1976 to present...

Results of Search in 1976 to present db for:

ACLM/"rapid release": 156 patents. Hits 101 through 150 out of 156

Prev. 50 Hits
Final 6 Hits
Jump To

Refine Search aclm/"rapid release"

PAT.

NO.

Title

- 101 4,765,990 T Sustained-release nifedipine preparation
- 102 4,740,122 T Rapid-release chuck
- 103 4,720,387 T Sustained-release preparation of pinacidil
- 104 4,713,247 T Long-acting formulation of cefaclor
- 105 4,708,184 **T** Tire pressure regulating unit
- 106 4,707,362 T Sustained release composition
- 107 4.657,294 T Front guard bar for motor vehicles
- 108 4.649.817 T Stencil manufacturing and printing process
- 109 4,631,061 T Automatic urine detecting, collecting and storing device
- 110 4,630,542 **T** Nacelle
- 111 4,629,620 T Membrane-coated sustained-release tablets and method
- 112 4,629,619 T Membrane-coated sustained-release tablets and method
- 113 4,615,814 T Porous substrate with absorbed antistat or softener, used with detergent
- 114 4,600,577 T Pharmaceutical preparations of pinacidal
- 115 4,599,411 T Process for the production of alkali metal salts of dichloroisocyanuric acid
- 116 4,561,529 T Torque-limiting clutch with temperature-responsive rapid release mechanism
- 117 4,557,925 T Membrane-coated sustained-release tablets and method
- 118 4,513,810 T Low gravity exothermic heating/cooling apparatus

Т

- 119 4,510,791 Method and apparatus for testing the air-tightness of a building using transient pressurization
- 120 4,503,031 T Super-fast-starting-sustained release tablet
- 121 4,498,365 **T** Apparatus for providing extended versatility in a keyboard-controlled musical instrument in pitch variation, tone alteration characteristics and the like
- 122 4,476,159 **T** High temperature adhesive silicone foam composition, foam generating system and method of generating foam
- 123 4,470,927 **T** Method of extracting the flavoring substances from the vanilla capsule
- 124 4,437,872 T Apparatus for bending and tempering glass sheets
- 125 4,413,688 **T** Diverter valve
- 126 4,384,003 **T** Contraceptive suppository
- 127 4,347,877 T Apparatus for aseptically discharging flowable substances
- 128 4,336,860 T Material handling vehicle having improved deadman control
- 129 4,303,247 **T** Catapult game
- 130 4,287,818 T Automatic fryer for breaded products
- 131 4,269,176 T Treatment head for electromedical diagnostic or therapeutic treatment of body parts
- 132 4,253,474 **T** Method for expanding tobacco
- 133 4,242,544 T Multiple-switch arrangement
- 134 4,233,049 T Method and apparatus for shaping glass sheets by drop forming
- 135 4,229,199 T Shaping glass sheets by drop forming with differential vacuum release
- 136 4,229,119 **T** Liftable and collapsible barrage
- 137 4,221,637 T Liquid absorbent safety rod for a nuclear reactor
- 138 4,221,573 T Electrostatic precipitator rapping mechanism
- 139 4,191,137 T Electronic fuel injection control for an internal combustion engine
- 140 4,186,902 T Snap-lock terminator mounting bracket assembly
- 141 4,171,827 **T** Ski brake
- 142 4,122,157 T Nitrofurantoin sustained release tablet
- 143 4,098,333 T Marine production riser system
- 144 4,091,808 T Strap for immobilizing human limb during surgery
- 145 4,080,588 T Vehicles and control circuits for vehicle accessories
- 146 4,073,452 **T** Apparatus for delaying the pressure drop in pressurized cabins or the like especially in an emergency
- 147 4,061,800 T Vapor desposition method
- 148 4.059,034 T Screw-driving devices
- 149 4,058,862 **T** Water safety device
- 150 4.057,046 T Blood circulation stimulator

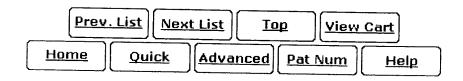


EXHIBIT E

http://www.fda.gov/cder/dsm/DRG/drg00201.htm

CDER DATA STANDARDS MANUAL

FDA Data Element Number. None.

CDER Data Element Number. C-DRG-00201

Version Number, 002

Data Element Name. Dosage Form.

Description. This standard provides for all drug dosage forms. The granularity of data often requires that more specific dosage form terms be stored in CDER's automated databases then is represented in its publications. These dosage form terms are available not only use in databases that track approved drug products, but also for drug products such as those that have not been approved, investigational drug products, homeopathic drug products, and bulk drug products.

Source. COMIS Reference table (which is used by the Drug Product Reference File to generate Approved Drug Products with Therapeutic Equivalence Evaluations (aka "The Orange Book")), and the Drug Registration and Listing Database.

Relationship.

FDA Specifications. None.

CDER Specifications. Dosage Form shall consist of an alphabetic term which has a maximum length restricted to 240 characters, with the comma and hyphen being the only punctuation permissible. Codes representing these dosage forms shall consist of three digits.

FDA Approved Date. None.

CDER Approved Date. April 14, 1992.

FDA Revised Date.

CDER Revised Dates. January 12, 1993; October 11, 1994; January 10, 1995; December 12, 1996; November 8, 1996; April 21. 1997; November 14, 1997; February 24, 1998; November 2, 1998; December 21, 2000

	The second secon
TABLET, DELAYED RELEASE PARTICLES	A solid dosage form containing a conglomerate of medicinal particles that have been covered with a coating which releases a drug (or drugs) at a time other than promptly after administration. Enteric-coated articles are delayed release dosage forms.
TABLET, DELAYED RELEASE	A solid dosage form which releases a drug (or drugs) at a time other than promptly after administration. Enteric-coated articles are delayed release dosage forms.
TABLET, EXTENDED RELEASE	A solid dosage form containing a drug which allows at least a reduction in dosing frequency as compared to that drug presented in conventional dosage form.
PELLETS, COATED, EXTENDED RELEASE	A solid dosage form in which the drug itself is in the form of granules to which varying amounts of coating have been applied, and which releases a drug (or drugs) in such a manner to allow a reduction in dosing frequency as compared to that drug (or drugs) presented as a conventional dosage form
CAPSULE, COATED, EXTENDED RELEASE	A solid dosage form in which the drug is enclosed within either a hard or soft soluble container or "shell" made from a suitable form of gelatin; additionally, the capsule is covered in a designated coating, and which releases a drug (or drugs) in such a manner to allow at least a reduction in dosing frequency as compared to that drug (or drugs) presented as a conventional dosage form.
CAPSULE, COATED PELLETS	A solid dosage form in which the drug is enclosed within either a hard or soft soluble container or "shell" made from a suitable form of gelatin; the drug itself is in the form of granules to which varying amounts of coating have been applied.
CAPSULE, DELAYED RELEASE	A solid dosage form in which the drug is enclosed within either a hard or soft soluble container made from a suitable form of gelatin, and which releases a drug (or drugs) at a time other than promptly after administration. Enteric-coated articles are delayed release dosage forms.
CAPSULE, DELAYED RELEASE PELLETS	A solid dosage form in which the drug is enclosed within either a hard or soft soluble container or "shell" made from a suitable form of gelatin; the drug itself is in the form of granules to which enteric coating has been applied, thus

	delaying release of the drug until its passage into the intestines.
LATENDED RELEASE	A solid dosage form in which the drug is enclosed within either a hard or soft soluble container made from a suitable form of gelatin, and which releases a drug (or drugs) in such a manner to allow a reduction in dosing frequency as compared to that drug (or drugs) presented as a conventional dosage form.
GRANULE, FOR SUSPENSION, EXTENDED RELEASE	A small medicinal particle or grain made available in its more stable dry form, to be reconstituted with solvent just before dispensing to form a suspension; the extended release system achieves slow release of the drug over an extended period of time and maintains constant drug levels in the blood or target tissue.

EXHIBIT F

http://www.fda.gov/cder/guida	ance/1713bp1.pdf
-------------------------------	------------------

Guidance for Industry: dissolution testing of immediate release solid oral dosage forms.
Table of Contents
I. INTRODUCTION
II. BACKGROUND
III. BIOPHARMACEUTICS CLASSIFICATION SYSTEM
IV. SETTING DISSOLUTION SPECIFICATIONS
A. Approaches for Setting Dissolution Specifications for a New Chemical Entity 4
B. Approaches for Setting Dissolution Specifications for Generic Products 5
C. Special Cases
D. Mapping or Response Surface Methodology
E. In VIVO-In Vitro Correlations
F. Validation and Verification of Specifications
V. DISSOLUTION PROFILE COMPARISONS
A. Model Independent Approach Using a Similarity Factor 9
B. Model Independent Multivariate Confidence Region Procedure
C. Model Dependent Approaches
VI. DISSOLUTION AND SUPAC-IR
VII. BIOWAIVERS
Appendix A
REFERENCES



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent application of:

FAOUR, J. et al.

Serial No.: 09/770,901

Filed: January 26, 2001

For: Pharmaceutical compositions containing

A COX-II inhibitor and a muscle

relaxant

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

"EXPRESS MAIL" MAILING LABEL NUMBER <u>FU 244411606 US</u>
DATE OF DEPOSIT: <u>OCTOBER 23, 2003</u>
I HEREBY CERTIFY THAT THIS PAPER OR FEE IS BEING

DEPOSITED WITH THE UNITED STATES POSTAL SERVICE "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE COMMISSIONER FOR PATENTS.

RICK MATOS

Group Art Unit: 1617

Examiner: Shaojia A. Jiang

(Typed or proved plant erron mailing paper or fee)

(SIGNATURE OF PERSON MAILING PAPER OR FEE)

SECOND SUPPLEMENTAL DECLARATION UNDER RULE 37 C.F.R. §1.132

Further to the Office Action mailed April 23, 2003, and the Supplemental Declaration mailed September 17, 2002, the undersigned hereby declares as follows:

My name is Ethel C. Feleder. I reside in Luis Maria Campos 449, 2° A, Buenos Aires, Argentina.

I am knowledgeable in the area of Pharmaceutical Sciences and in particular in the area of the clinical evaluation of pharmaceutical formulations. My education, experience, publications and awards are summarized in my curriculum vitae, which has been previously submitted.

I am familiar with the subject matter of the invention disclosed and claimed in the aboveidentified patent application. In particular, I am familiar with conventional methods of analgesic therapy with individual drugs and with combinations of drugs.

With regard to the subject matter of claims 1-8, 40-45 and 49-54, I understand that the claims cover a pharmaceutical composition comprising a COX-II inhibitor and a muscle relaxant.

With regard to the subject matter of claims 10-38 and 46-48, I understand that the claims cover a pharmaceutical dosage form comprising a COX-II inhibitor and a muscle relaxant.

As a medical doctor, it is my belief that the claimed pharmaceutical compositions and dosage forms provide significant advantages over conventional analgesic compositions and dosage

forms used in pain therapy. In particular, the claimed pharmaceutical composition and dosage form provide an enhanced analgesic affect as compared to the administration of either agent alone AND as compared to the administration of an NSAID and a muscle relaxant. The exemplary formulation of rofecoxib and pridinol, the claimed composition and the claimed dosage form provide an unexpectedly improved analgesic effect over an equidose composition comprising diclofenac (an NSAID) and pridinol.

As previously declared, a side-by-side study to compare the analgesic effects of the claimed composition versus a prior art composition was conducted. The test employed was a writhing test conducted according to the method previously described by Siegmund et al. (*Proc. Soc. Exp. Biol. Med.* (1957), 95, 729-731). The method is well known in the art as a test for determining the analgesic effect of a drug or combination of drugs. The method and results were described in detail in the prior supplemental declaration.

In support of the prior supplemental declaration, this declaration is accompanied by a translation (Exhibits A & B) of a report containing the data of the side-by-side study conducted to compare the analgesic effects of the composition comprising rofecoxib and pridinol versus a prior art composition comprising diclofenac and pridinol.

Based upon the data enclosed herewith, the following results were obtained.

- 1. When administered alone and at the above-noted doses, neither diclofenac nor rofecoxib nor pridinol provided a statistically significant reduction in the number of contortions observed as compared to control (FIGS. 1-3). This means that the drugs were dosed at subtherapeutic levels considering that both drugs have been reported to produce analgesic effects in different animal models.
- 2. When diclofenac was administered in combination with pridinol, no statistically significant reduction in the number of contortions was observed as compared to control (FIG. 4). This means that pridinol did not enhance (either additively or synergistically) the analgesic efficacy of diclofenac at the doses tested.
- 3. When refecoxib was administered in combination with pridinel, a statistically significant reduction in the number of contentions was observed as compared to control (FIG. 5). This means that pridinel synergistically enhanced the analgesic efficacy of refecoxib at

the doses tested, since each agent alone did not provide an analgesic effect at the doses tested.

Therefore, it is truly unexpected that the combined administration of a COX-II inhibitor and a muscle relaxant provides an improved, additive or synergistic analysis effect when administered to a subject as compared to the analysis effect provided by the administration of either agent alone or as compared to the administration of an NSAID and a muscle relaxant.

I further declare that the statements made herein, to my knowledge, are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Date: 23th Ostober 9003

Dr. Ethel C. Feleder, M.D., Ph.D.

OT 23 2003

Table 1: Number of Controtions per 10 minutes for each mouse as a function of drug administered and dosage level.

Dose (mg/kg)	Contorti	Contortions per	10 min	utes in	10 minutes in each mouse	esnou					Š 	Mean'	S.D.		
0.0 (Normal saline)	14	17	20	24								18.8	4.3		
0.32	28	22	23	16	24	22					.	22.5	3.9		
0.64	14	19	30	23	16	28		•				21.7	6.5		
1.28	21	13	21	22	28	1						19.3	6.3		
2.56	13	29	13	25	=	19					1	18.3	7.3		
Diclofenac Sodium														P value	•
Dose (mg/kg)	Contortions per	ons per	10 min	utes in	10 minutes in each mouse	onse					≥	Mean	S.D.	of contr.	
0.0 (Normal saline)	14	17	20	24								18.8	6		
16	29	14	7	6								14.8	<u>ග</u>	0.4568	
32	13	7	16	က					٠			10.8	5.6	0.5330	
64	2	18	0	16								9.0	9.3	0.9275	
Rof c xib											1				
Dose (mg/kg)	Contortions per	ons per	10 min	utes in	10 minutes in each mouse	louse						Mean	C S		
0.0 (1% CMC)	32	31.	36	4			·					28.3	9.7		
16	12	12	17	10	_	13	2	2	10	18	m	9.6	5.6	0.0004	
32	18	15	18	20	7	က	31	9	,			15.3	8.7	0.0864	
64	35	22	25	12	23	17	17	0				18.9	10.2	0.6597	
											1				

EXHIBIT B

Tabl 2: C nt rtions per 10 minutes for the combination of diclofenac sodium and rofecoxib and pridinol.

Dicl fenac Plus Pridinol	ridinol													
Dose (mg/kg)	Contortions per 10 minutes in each	per 10 min	Ites in each	h mouse								Ž	Mean	
0.0 (Normal saline)	l _ l	14	35	7	19					* ;			17.8	
16	12	26	20	7	6	4		٠					13.0	α 4
32	25	15	15	=	12	37	,						19.2	9
64	20	12	တ	21	22	12							16.5	o o
Rof coxib Plus Pridinol	ridinol						<u>.</u>							
Dose (mg/kg)	Contortions per 10 minutes in each	per 10 min	rtes in each	h mouse								Ž	Mean	_
0.0 (1% CMC)	33	43	44	26	37	32	•					Í	40.8	σ: «
16	33	7	70	78	13	_	77	13	13	78	7	7	16.0	0 0
32	28	37	52	59	15	19	78	5	20	53	78	•	24.1	7.9
64	18	53	13	29	7	20	23	9	25	16	13	7	17.1	8.6

Table 3: Two tailed T-Test statistical analysis of the combination of diclofenac & pridinol versus rofecoxib & pridinol

P value from Control 0.4208 0.8308 0.8054	0.0001 0.0012 0.0001
Diclofenac Plus Pridinol Dose (mg/kg) 0.0 (Normal saline) 16 32 64	R f coxib Plus Pridinol Dos (mg/kg) 0.0 (1% CMC) 16 32 64

